



## SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
EP 19 90 18 06

Classification of the application (IPC):  
H04N 19/52, H04N 19/70

Technical fields searched (IPC):  
H04N

| DOCUMENTS CONSIDERED TO BE RELEVANT |   |                   |
|-------------------------------------|---|-------------------|
| Category                            | Citation of document with indication, where appropriate, of relevant passages   | Relevant to claim |
| X                                   | <p><b>XU (HUAWEI) W ET AL:</b> "CE4-related: CTU-level Initialization of History-based Motion Vector Prediction", 12. JVET MEETING; 20181003 - 20181012; MACAO; (THE JOINT VIDEO EXPLORATION TEAM OF ISO/IEC JTC1/SC29/WG11 AND ITU-T SG.16 ),, 05 October 2018 (2018-10-05), no. JVET-L0575<br/>           URL: <a href="http://phenix.int-evry.fr/jvet/doc_end_user/documents/12_Macao/wg11/JVET-L0575-v2.zip">http://phenix.int-evry.fr/jvet/doc_end_user/documents/12_Macao/wg11/JVET-L0575-v2.zip</a> JVET-L0575_CE4-related_CTU_level_history_init_v2.docx [retrieved on 05 October 2018 (2018-10-05)]<br/>           XP030251262<br/>           * the whole document *</p> | 1-6               |
| E                                   | <p>WO 2020014389 A1 (QUALCOMM INC [US])<br/>           16 January 2020 (2020-01-16)<br/>           * figures 1,3,4,14-18 *<br/>           * paragraph [0075] - paragraph [0076] *<br/>           * paragraphs [0090], [0100], [0113], [0128], [0133] *<br/>           * paragraph [0195] - paragraph [0200] *</p>   | 1-6               |
| E                                   | <p>WO 2020037144 A1 (QUALCOMM INC [US])<br/>           20 February 2020 (2020-02-20)<br/>           * figures 1,7,8 *<br/>           * paragraphs [0004], [0029] *<br/>           * paragraph [0072] - paragraph [0075] *<br/>           * paragraph [0096] - paragraph [0097] *<br/>           * paragraph [0104] - paragraph [0106] *<br/>           * paragraph [0142] - paragraph [0143] *</p>  | 1-6               |
| A                                   | <p>US 2011194609 A1 (RUSERT THOMAS [SE] ET AL)<br/>           11 August 2011 (2011-08-11)<br/>           * paragraph [0038] - paragraph [0039] *</p>  | 1-6               |

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

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|---------------------------|--|---------------------------|
| Place of search<br>Munich | Date of completion of the search<br>11 August 2022 | Examiner<br>Ferré, Pierre |
|---------------------------|--|---------------------------|

### CATEGORY OF CITED DOCUMENTS

- |   |  |
|---|--|
| X: particularly relevant if taken alone   | P: intermediate document   |
| Y: particularly relevant if combined with another document of the same category | T: theory or principle underlying the invention                        |
| A: technological background   | E: earlier patent document, but published on, or after the filing date |
| O: non-written disclosure   | D: document cited in the application                                   |
| & : member of the same patent family, corresponding document                    | L: document cited for other reasons                                    |

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**ANNEX TO SUPPLEMENTARY EUROPEAN  
SEARCH REPORT**

 Application number:  
EP 19 90 18 06

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on 11-08-2022  
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| Patent document cited<br>in search report |                 | Publication<br>date | Patent family<br>member(s) | Publication<br>date |            |
|---|-----------------|---------------------|----------------------------|---------------------|------------|
| WO 2020014389                             | A1              | 16-01-2020          | AU                         | 2019302660 A1       | 21-01-2021 |
|   |                 |                     | BR                         | 112021000002 A2     | 30-03-2021 |
|   |                 |                     | CA                         | 3105379 A1          | 16-01-2020 |
|   |                 |                     | CL                         | 2021000026 A1       | 19-07-2021 |
|   |                 |                     | CN                         | 112369031 A         | 12-02-2021 |
|   |                 |                     | CO                         | 2021000057 A2       | 08-04-2021 |
|   |                 |                     | EP                         | 3821604 A1          | 19-05-2021 |
|   |                 |                     | IL                         | 279538 A            | 31-01-2021 |
|   |                 |                     | JP                         | 2021530904 A        | 11-11-2021 |
|   |                 |                     | KR                         | 20210027363 A       | 10-03-2021 |
|   |                 |                     | PH                         | 12020552224 A1      | 28-06-2021 |
|   |                 |                     | SG                         | 11202012683V A      | 28-01-2021 |
|   |                 |                     | TW                         | 202032994 A         | 01-09-2020 |
|   |                 |                     | US                         | 2020021839 A1       | 16-01-2020 |
|   |                 |                     | WO                         | 2020014389 A1       | 16-01-2020 |
|   |                 |                     | ZA                         | 202100877 B         | 27-07-2022 |
|   |                 |                     | WO 2020037144              | A1                  | 20-02-2020 |
| AU  | 2019321565 A1   | 11-02-2021          |                            |                     |            |
| BR  | 112021002219 A2 | 04-05-2021          |                            |                     |            |
| CA  | 3106327 A1      | 20-02-2020          |                            |                     |            |
| CL  | 2021000390 A1   | 27-08-2021          |                            |                     |            |
| CN  | 112567748 A     | 26-03-2021          |                            |                     |            |
| CO  | 2021001740 A2   | 08-04-2021          |                            |                     |            |
| EP  | 3837840 A1      | 23-06-2021          |                            |                     |            |
| IL  | 280040 A        | 01-03-2021          |                            |                     |            |
| JP  | 2021534627 A    | 09-12-2021          |                            |                     |            |
| KR  | 20210042103 A   | 16-04-2021          |                            |                     |            |
| PH  | 12021550079 A1  | 25-10-2021          |                            |                     |            |
| SG  | 11202100151Q A  | 25-02-2021          |                            |                     |            |
| US  | 2020059658 A1   | 20-02-2020          |                            |                     |            |
| WO  | 2020037144 A1   | 20-02-2020          |                            |                     |            |
| ZA  | 202101016 B     | 27-07-2022          |                            |                     |            |
| US 2011194609                             | A1              | 11-08-2011          |                            |                     |            |
|   |                 |                     | CN                         | 102860006 A         | 02-01-2013 |
|   |                 |                     | EP                         | 2532159 A1          | 12-12-2012 |
|   |                 |                     | EP                         | 2532160 A1          | 12-12-2012 |
|   |                 |                     | US                         | 2011194608 A1       | 11-08-2011 |
|   |                 |                     | US                         | 2011194609 A1       | 11-08-2011 |
|   |                 |                     | US                         | 2017064299 A1       | 02-03-2017 |
|   |                 |                     | WO                         | 2011095259 A1       | 11-08-2011 |
|   |                 |                     | WO                         | 2011095260 A1       | 11-08-2011 |